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PATENT SPECIFICATION



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183,944

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PROVISIONAL SPECIFICATION.

Improvements in Squeegees.

We, ALLAN PERCIVAL KEEN, and WILLIAM SMITH, both British subjects, trading as Keen & Smith, of 260, Foleshill Road, Coventry, Warwickshire, do hereby declare the nature of this invention to be as follows:—

This invention relates to squeegees, such as are used in photographic work, and for causing paper and textile material to adhere to smooth surfaces, comprising usually a rubber-covered roller carried in bearings in a frame, which is pushed over the paper or the like.

The object of the invention is to provide a construction which will allow considerably greater pressure than usual to be applied to the paper or the like, without resulting in excessive wear of the bearings or distortion.

According to this invention, the roller is carried in bearings in a substantial frame, preferably of T-section, and the ends of the frame are provided with bushes which constitute the bearings.

In the preferred construction, the frame is formed centrally with a boss to receive a handle which projects at right angles to the length of the frame. This handle may be attached by a screw passing through the boss and up the handle. At each side of the boss the frame extends to the extreme limits of the

roller, these parts being preferably of T-section. At the ends of these parts the frame is bent over at a right angle, these bent parts being parallel to the handle. In side view the bent parts form an obtuse angle to the handle, and they are also of T-section.

The bent parts terminate in bosses which are bored transversely to receive brass, steel, or other bushes for the spindle of the roller.

The roller may have a spindle passing completely through it; or a wood screw screwing into each end of the roller may constitute the spindle.

Preferably the handle is spigotted into a recess in the boss on the frame in order to provide a very strong attachment.

By this means a very rigid and strong holder is provided which allows considerable pressure to be imparted to the work without any fear of distortion. The frame is preferably made of aluminium alloy, and by using bushes of suitable material for the bearings the heavy pressure does not cause wear.

Dated this 4th day of May, 1921.

ERIC W. WALFORD,
Fellow of the Chartered Institute of
Patent Agents,
18, Hertford Street, Coventry,
Agent for the Applicants.

COMPLETE SPECIFICATION.

Improvements in Squeegees.

We, ALLAN PERCIVAL KEEN, and WILLIAM SMITH, both British subjects, trading as Keen & Smith, of 260, Foleshill Road, Coventry, Warwickshire, do hereby declare the nature of this invention and in what manner the same is to

[Price 1/-]

hill Road, Coventry, Warwickshire, do hereby declare the nature of this invention and in what manner the same is to

be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to squeegees, such as are used in photographic work, and for causing paper and textile material to adhere to smooth surfaces, comprising usually a rubber-covered roller carried in bearings in a frame, which is pushed over the paper or the like.

The principal object of the invention is to provide a specific construction which will allow considerable pressure to be applied to the paper or the like, without distortion of the frame, and at the same time will provide ample bearing surface for the roller spindle.

Usually squeegee frames are formed of strip metal bent to shape, and to provide a greater amount of bearing surface for the roller spindles it has been proposed to bend each end of the strip round in the manner of an eye. Alternatively the strip has been folded upon itself to thicken it at that part in which is formed the spindle bearing, or the metal has been so bent that one side of the spindle could rest against it under load. Furthermore, it has been proposed to construct a frame of round rod, one portion of which extended completely through the roller forming a long bearing surface upon which it could rotate.

According to the present invention, however, the squeegee is characterised by the frame being formed of angle section material and having bosses of integral form adapted to provide long cylindrical bearings for the roller spindles, and thus considerable strength is obtainable in the frame as well as adequate bearing surface for the roller spindle.

In the accompanying drawings:—

Figure 1 is a perspective view of a complete squeegee made in accordance with this invention,

Figure 2 is a side view of the frame and handle,

Figure 3 is a section showing the preferred method of attaching the handle, and

Figure 4 is a section showing the bearing for the roller.

The frame A is formed centrally with a boss B to receive a handle C which projects at right angles to the length of the frame. This handle may be attached by

a screw D passing through the boss and up the handle. At each side of the boss the frame extends to the extreme limits of the roller, these parts being preferably of T-section, as is clearly shown. At the ends E of these parts the frame is bent over at a right angle, these bent parts being in planes parallel to that containing the handle. In side view the bent parts E form an obtuse angle to the handle C, and they are also preferably of T-section.

The parts E terminate in bosses F which are bored transversely to receive brass, steel, or other bushes G for the spindle of the roller H.

The roller may have a spindle passing completely through it, or a wood screw J screwing into each end of the roller and running in the bush G may constitute the spindle.

Preferably the handle is spigotted into a recess K in the boss B on the frame in order to provide a very strong attachment, as is shown in Figure 3.

By this means a very rigid and strong holder is provided which allows considerable pressure to be imparted to the work without any fear of distortion. The frame is preferably made of aluminium alloy, and by using bushes of suitable material for the bearings the heavy pressure does not cause wear.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. A squeegee, of the kind referred to, characterised by the frame being formed of angle section material and having bosses of integral form adapted to provide long cylindrical bearings for the roller spindle, substantially as described.

2. A squeegee, as claimed in Claim 1, in which the frame is provided with a boss having a socket with which the handle is spigotally connected, substantially as and for the purpose described.

3. The complete squeegee, substantially as described and illustrated in the accompanying drawings.

Dated this 1st day of February, 1922.

ERIC W. WALFORD,
Fellow of the Chartered Institute of
Patent Agents,
18, Hertford Street, Coventry,
Agent for the Applicants.

[This Drawing is a reproduction of the Original on a reduced scale.]

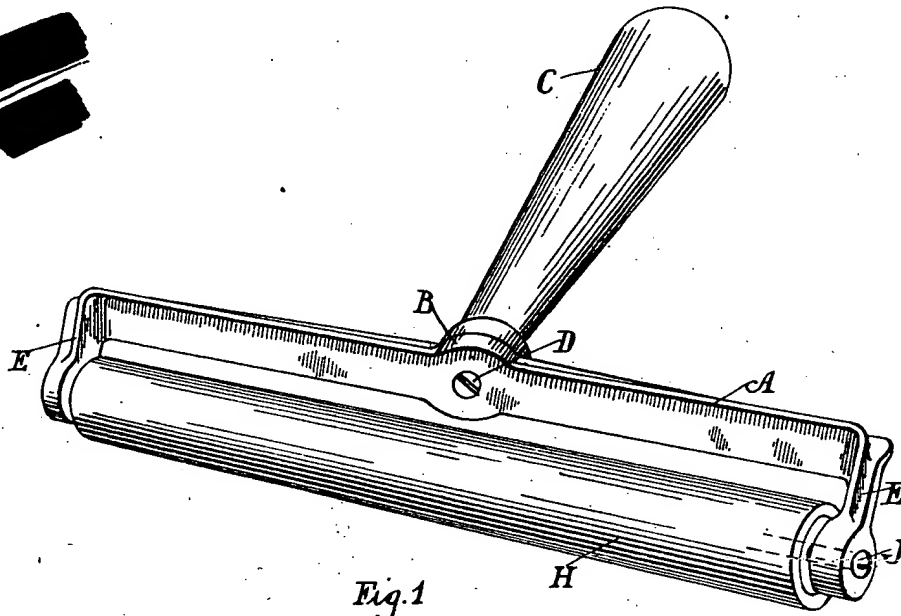


Fig. 1

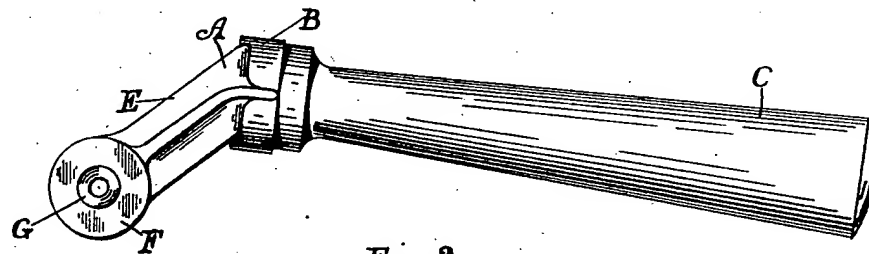


Fig. 2.

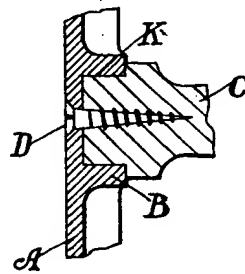


Fig. 3.

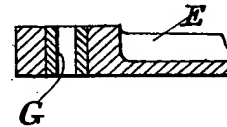


Fig. 4.

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